

**North Carolina Division of Medical Assistance**

**HEDIS Measures for Reporting Year, 2002; Calendar Year, 2001**

**Comparisons of HEDIS Results by Systems of Care**

**And**

**Comparison of HEDIS Results for Children With Special Health  
Care Needs by Systems of Care**

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## **Introduction**

The North Carolina Division of Medical Assistance (NC DMA) utilizes four systems of care to deliver medical services to Medicaid recipients; three Managed Care systems and one traditional fee for service system. Included in Managed Care are Carolina ACCESS I, a primary care case management (PCCM) program; Carolina ACCESS II/III, an enhanced PCCM program focusing on disease management; and Health Care Connection, a Health Maintenance Organization (HMO) system that currently consists of one participating HMO located in Mecklenburg County.

Approximately 70% of the Medicaid population in NC is enrolled in a Managed Care program. Advantages for recipients enrolled in Managed Care include access to a Primary Care Physician (PCP) of their choice, coordination of care with specialists, and timely access to preventive and urgent care from their PCP.

Carolina ACCESS I is currently available in all 100 North Carolina counties. Carolina ACCESS II/III programs are in selected regions of the state, however the program is slated to spread statewide in an effort to provide more intensive care management in order to lower utilization costs for the Medicaid program.

Recognizing the need to effectively assess the effectiveness of care, access to services, and service utilization for all the systems of care, the Quality Management Unit of the NC DMA Managed Care Section, in collaboration with the Information Systems Unit of DMA, completes an annual assessment of the systems of care using the Health Employer Data and Information Set (HEDIS).<sup>1</sup>

HEDIS is a widely recognized set of performance indicators addressing access, utilization and quality. Comparison of HEDIS results between systems of care is a useful tool in determining which systems may deliver quality care with better access and cost effective service utilization. Additionally, the use of standardized measures allows effective comparisons with other states and the National Committee for Quality Assurance's (NCQA) National Averages for Medicaid Measures.<sup>2</sup> The Quality Management Unit uses HEDIS data to plan quality improvement initiatives and projects throughout the year. Annual measurement allows the unit to effectively determine the impact of interventions designed to improve services.

## **Methodology**

The HEDIS measurements included in this report were obtained using the 2002 HEDIS, Volume 2 technical specifications<sup>3</sup> for each measure. Sample populations were drawn from eligibility and claims data from the Division's MMIS and DRIVE computer systems. In all measures, there is a continuous enrollment period defined as the time in months that the recipient is required to be enrolled in Medicaid before a particular date or event. Since NC Medicaid utilizes a monthly enrollment period, months are utilized to determine the continuous enrollment period. The anchor date is a date in time that the recipient is required to be enrolled in Medicaid. For a recipient to be eligible for the sample population in a measure, Medicaid continuous enrollment criteria, anchor date criteria, as well as any other specific criteria such as age, gender, medical diagnosis or

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<sup>1</sup> HEDIS 2002, Volume 2, Technical Specifications were used in the data abstraction for this report.

<sup>2</sup> 2001 National Averages for HEDIS Measures can be found on the NCQA website: [www.ncqa.org](http://www.ncqa.org).

<sup>3</sup> See Appendix I of this report for descriptions of HEDIS measures contained in this report.

previous procedure/condition must be met. The allowable gap in enrollment for Medicaid recipients for whom enrollment is verified monthly is no more than one month for each measure.

Data was abstracted from claims and encounter data. Only paid encounters are submitted by the HMO; therefore to equate comparisons among the systems of care, paid claims for all other systems of care included in this report were used for data abstraction. Data was retrieved using a 6-month lag time for claims. This lag time period may be adequate for office-based visits, however, may result in undercounting of inpatient visits. In addition there are other data limitations that may impact the results reported:

- Data for all measures was retrieved from the DRIVE data warehouse that contains a rolling 3-year time period. Therefore, some exclusions occurring prior to this period may not have been identified.
- This report contains data abstracted from administrative claims data only. No medical record reviews were conducted. The use of hybrid data may have increase results on some measures.
- The NC DMA has a complex system for checking encounter data for accuracy. Any encounter claim denied for errors is sent back to the HMO for correction to ensure accurate encounter data is uploaded to the DRIVE system. As a result, the HMO results may be underreported.

Each measure includes subsets of results by system of care and the total for all of the eligible population for the measure. Additionally, due to the interest of NC in assuring access and quality for Children with Special Health Care Needs (CSHCN), subsets of measures related to children and adolescents have been run and are included in this report.

The NC DMA has added several measures that were not included in the Baseline HEDIS Project, 2000 and the Year One HEDIS Remeasure, 2001 located on the DHHS website, [www.dhhs.state.nc.us/dma](http://www.dhhs.state.nc.us/dma). Added to this year's report are measures such as LDL-C and HgbA1c testing for diabetics, adolescent immunization rates, and adult's access to preventive/ambulatory services. The results of these added measures will become the baseline for comparisons with future reports.

HEDIS reporting years include data for the previous calendar year. Therefore, this HEDIS report is for reporting year 2002 and contains data abstracted from calendar year 2001. The report also includes the NC DMA percentage results for reporting year 2001 (calendar year 2000) for reference and comparison.

The HEDIS Measures chosen for this report are as follows:<sup>4</sup>

- Childhood Immunization Rates 1 and 2
- Adolescent Immunization Combinations 1 and 2
- Breast Cancer Screening
- Cervical Cancer Screening
- Diabetic HbA1c Testing
- Diabetic Retinal Exams
- Diabetic LDL-C Screening
- Appropriate Meds for People With Asthma, Age 5-9 years, 10-17 years, and 18-56 years
- Adult's Access to Preventive/Ambulatory Services, Ages 20-44 years, 45-64 years, and 65 years and older
- Children's Access to Primary Care Practitioners Age 12-24 months, 25 months-6 years, and 7-11 years
- Well-Child visits in the first 15 months of life, from 0 visits-6 or more visits
- Well-Child visits in the 3<sup>rd</sup> through the 6<sup>th</sup> years of life
- Adolescent Well Care visits, Age 12-21 years
- Inpatient Utilization-General Hospital/Acute Care-Total discharges/1000 Member Months, Surgery discharges/1000 Member Months, Maternity discharges/1000 Member Months, and Medicine discharges/1000 Member Months
- Ambulatory Care, Outpatient visits/1000 Member Months, Emergency Department visits/1000 Member Months, Ambulatory Surgery Procedures/1000 Member Months, and Observation Room stays/1000 Member Months

## **Results**

To facilitate comparison with the prior year's results and HEDIS National Averages for each measure, Table 1 is charted to show the measure, NC DMA's results by system of care as well as the total for all systems of care for this year and the prior year, and the HEDIS National Averages for the current and prior years. Complete tables showing the numerators, denominators, and results per system of care can be found in Appendix II.

Additionally, the Children with Special Health Care Needs subset results are shown on Table 2. The NC DMA has recognized the need to evaluate this population as part of its plan to improve care, access and quality to these children while fulfilling reporting requirements to the Centers for Medicare and Medicaid Services (CMS). This information is also distributed to Governor's Task Force on Children with Special Health Care Needs as a means to identify issues that the Task Force may need to address. Complete tables for the CSHCN subset can be found on in Appendix III.

## **Conclusions**

Improving access and care to Medicaid children is a major focus for the Division. This year's results indicate progress toward increasing childhood immunization rates. The Division's childhood immunization rates 1 and 2 have increased from last year and are above the National HEDIS averages. The numbers of Medicaid children who have 0-2 well child visits in the first 15

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<sup>4</sup> Complete descriptions of each measure are located in Appendix I of this report.

months of life have decreased and those with 3-6+ visits have increased indicating an increase in access to care. The Division has worked collaboratively with the Department of Maternal and Child Health and the Immunization Branch to identify strategies to increase access and immunization. North Carolina also participates in the GPRA project sponsored by CMS. Health Check Coordinators, located in some counties of the state, make contacts with parents of Medicaid children for education and assistance in getting the children preventive care and immunizations. Based on the results, the Division continues with the need to increase adolescent immunization rates and well-care visits which are below the national HEDIS averages. This year's results will serve as a baseline for all future measurements. Strategies to address these issues will be developed in the future. This year, we have seen an increase in children's access to primary care practitioners. The Division can contribute this increase to ongoing development and implementation of managed care programs across the state. The vision of the NC DMA is that all eligible Medicaid recipients will establish medical relationships and a medical home with primary care physicians enrolled in managed care for preventive/ambulatory care and rely less on emergency rooms for primary care.

Diabetic retinal exam rates have increased this year and are above the national HEDIS average. Below national averages are Diabetic HbA1c testing and LCL-C screens. The Division did develop and implement a diabetes project in 2000 to address diabetic management with some Primary Care Physicians in managed care. The strategies included providing diabetic flow sheets to the physicians and blood sugar check charts for recipients. Further study and development of strategies to address the low HbA1c and LDL-C screens is warranted.

In the area of appropriate medications for people with asthma, the results show an increase in the rates from both DMA results for last year and HEDIS national averages for this year. This can be directly attributed to the participation of managed care physicians in national collaboratives through the National Institute for Children's Healthcare Quality (NICHQ) and the Children's Primary Care Research Group (CPCRG) at UNC-Chapel Hill. The Carolina ACCESS II/III programs have also focused on asthma as a disease management activity.

Adult's access to preventive/ambulatory services are also above the national HEDIS averages in all age groups. This rate was not calculated for last year, therefore, these rates will become baselines for comparisons with future studies. Again, the focus of the Division on the establishment of medical homes through managed care programs for Medicaid recipients can be attributed to these positive rates.

All areas of inpatient utilization demonstrate rates above the national HEDIS averages and in some cases (ambulatory surgeries, observation stays, emergency room visits, and outpatient visits) an increase in the rates from last year's DMA results. The Division has redesigned the utilization report sent to physicians in managed care and is currently developing strategies to address overutilization.

All of the results for the CSHCN population will serve as baselines for future interventions and remeasures. As stated previously, the NC DMA is committed to opening access and increasing the quality of care delivered to this population. Currently, some physicians enrolled in the managed care programs are participating in a collaborative for children with Attention Deficit Hyperactivity Disorder that incorporates both primary care and coordination with specialists and community services for this population. Additionally, the NC DMA will conduct a focused study for CSHCN in 2003 in collaboration with the Medical Review of North Carolina (MRNC) which will use

hybrid data (administrative and chart review) to further access the coordination of care for these children.

### **Acknowledgements**

The Quality Management Section of DMA Managed Care gratefully acknowledges the assistance of the Information Systems Section for assistance in developing this report.

**Table 1. Comparisons of HEDIS data by Systems of Care, NC DMA Total, Calendar Years, and HEDIS Means**

<b>Indicator</b>		<b>CA I %</b>	<b>CA II/III %</b>	<b>Aggregate HMO %</b>	<b>Fee for Service %</b>	<b>Total DMA %</b>	<b>HEDIS Mean %</b>
<b>Childhood Immunization Rate 1</b>	<b>CY 2001</b>	<b>61.99</b>	<b>62.63</b>	<b>33.94</b>	<b>52.96</b>	<b>58.27</b>	<b>56.02</b>
	<b>CY 2000</b>	<b>59.41</b>	<b>56.4</b>	<b>35.94</b>	<b>50.59</b>	<b>54.61</b>	<b>51.32</b>
<b>Childhood Immunization Rate 2</b>	<b>CY 2001</b>	<b>49.33</b>	<b>57.36</b>	<b>27.35</b>	<b>43.02</b>	<b>48.7</b>	<b>48.71</b>
	<b>CY 2000</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>38.11</b>
<b>Adolescent Immunization Combination 1</b>	<b>CY 2001</b>	<b>28.74</b>	<b>29.76</b>	<b>14.38</b>	<b>20.71</b>	<b>26.19</b>	<b>27.71</b>
	<b>CY 2000</b>	<b>27.7</b>	<b>30.4</b>	<b>28.3</b>	<b>21.8</b>	<b>26.24</b>	<b>22.39</b>
<b>Adolescent Immunization Combination 2</b>	<b>CY 2001</b>	<b>1.12</b>	<b>1.17</b>	<b>.26</b>	<b>1.02</b>	<b>1.07</b>	<b>13.03</b>
	<b>CY 2000</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>9.63</b>
<b>Breast Cancer Screening</b>	<b>CY 2001</b>	<b>46.3</b>	<b>52.15</b>	<b>30.47</b>	<b>43.48</b>	<b>46.3</b>	<b>54.9</b>
	<b>CY 2000</b>	<b>49.8</b>	<b>50.2</b>	<b>46.3</b>	<b>43.9</b>	<b>45.7</b>	<b>53.7</b>
<b>Cervical Cancer Screening</b>	<b>CY 2001</b>	<b>55.36</b>	<b>51.93</b>	<b>48.74</b>	<b>36.1</b>	<b>45.86</b>	<b>58.39</b>
	<b>CY 2000</b>	<b>53.4</b>	<b>48</b>	<b>51.4</b>	<b>33.5</b>	<b>43</b>	<b>57.53</b>
<b>Diabetic HbA1c Testing</b>	<b>CY 2001</b>	<b>50.14</b>	<b>48.82</b>	<b>60.48</b>	<b>14.02</b>	<b>27.09</b>	<b>68.21</b>
	<b>CY 2000</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>65.9</b>
<b>Diabetic Retinal Exams</b>	<b>CY 2001</b>	<b>54.4</b>	<b>51.18</b>	<b>34.13</b>	<b>53.76</b>	<b>53.76</b>	<b>41.84</b>
	<b>CY 2000</b>	<b>45.5</b>	<b>42.6</b>	<b>24.2</b>	<b>46.1</b>	<b>46</b>	<b>41.01</b>



Indicator		CA I %	CA II/III %	Aggregate HMO %	Fee for Service %	Total DMA %	HEDIS Mean %
LDL-C Screening	CY 2001	49.74	48.41	55.09	13.79	26.78	59.04
	CY 2000	N/A*	N/A*	N/A*	N/A*	N/A*	51.70
Appropriate Meds for People with Asthma Age 5-9 years	CY 2001	68.11	82.07	62	71.08	72.87	51.91
	CY 2000	N/A*	N/A*	N/A*	N/A*	N/A*	49.57
Appropriate Meds for People with Asthma Age 10-17 years	CY 2001	73.44	82.48	61.67	73.2	75.55	55.69
	CY 2000	N/A*	N/A*	N/A*	N/A*	N/A*	52.09
Appropriate Meds for People with Asthma Age 18-56 years	CY 2001	73.62	78.21	66.67	73.83	73.98	60.42
	CY 2000	N/A*	N/A*	N/A*	N/A*	N/A*	54.27
Adult's Access to Preventive/Ambulatory Services Ages 20-44 Years	CY 2001	80	76.42	71.21	77.52	78.44	72.36
	CY 2000	N/A*	N/A*	N/A*	N/A*	N/A*	72.04
Adult's Access to Preventive/Ambulatory Services Ages 45-64 Years	CY 2001	88.3	83.28	78.41	78.89	82.48	79.41
	CY 2000	N/A*	N/A*	N/A*	N/A*	N/A*	79.94
Adult's Access to Preventive/Ambulatory Services Ages 65 and older	CY 2001	92.56	88.57	100	79.12	80.24	79.41
	CY 2000	N/A*	N/A*	N/A*	N/A*	N/A*	79.94
Children's Access to Primary Care Practitioners Age 12-24 months	CY 2001	96.03	97.74	90.72	92.87	95.34	87.63
	CY 2000	95.1	97.2	89.6	92.6	94.4	85.17

<b>Indicator</b>		<b>CA I %</b>	<b>CA II/III %</b>	<b>Aggregate HMO %</b>	<b>Fee for Service %</b>	<b>Total DMA %</b>	<b>HEDIS Mean %</b>
<b>Children's Access to Primary Care Practitioners Age 25 months-6 years</b>	<b>CY 2001</b>	<b>85.46</b>	<b>89.99</b>	<b>78.29</b>	<b>79.11</b>	<b>84.5</b>	<b>75.42</b>
	<b>CY 2000</b>	<b>83</b>	<b>87.6</b>	<b>69.6</b>	<b>79.1</b>	<b>82.14</b>	<b>73.29</b>
<b>Children's Access to Primary Care Practitioners Age 7-11 years</b>	<b>CY 2001</b>	<b>78.54</b>	<b>86.84</b>	<b>70.71</b>	<b>77.21</b>	<b>79.87</b>	<b>75.59</b>
	<b>CY 2000</b>	<b>76.9</b>	<b>85.9</b>	<b>61</b>	<b>77.7</b>	<b>78.42</b>	<b>75.87</b>
<b>Well Child Visits in the First 15 Months of Life No visits</b>	<b>CY 2001</b>	<b>4.13</b>	<b>1.17</b>	<b>7.33</b>	<b>5.95</b>	<b>4.33</b>	<b>12.55</b>
	<b>CY 2000</b>	<b>5</b>	<b>2</b>	<b>14</b>	<b>8</b>	<b>7.25</b>	<b>13.92</b>
<b>Well Child Visits in the First 15 Months of Life One Visit</b>	<b>CY 2001</b>	<b>3.74</b>	<b>1.84</b>	<b>8.38</b>	<b>6</b>	<b>4.41</b>	<b>6.17</b>
	<b>CY 2000</b>	<b>4</b>	<b>2</b>	<b>20</b>	<b>7</b>	<b>8.25</b>	<b>7.66</b>
<b>Well Child Visits in the First 15 Months of Life Two Visits</b>	<b>CY 2001</b>	<b>4.6</b>	<b>3.05</b>	<b>11.86</b>	<b>8.6</b>	<b>6.17</b>	<b>7.07</b>
	<b>CY 2000</b>	<b>5</b>	<b>4</b>	<b>23</b>	<b>9</b>	<b>10.25</b>	<b>8.67</b>
<b>Well Child Visits in the First 15 Months of Life Three Visits</b>	<b>CY 2001</b>	<b>7.77</b>	<b>6.12</b>	<b>16.24</b>	<b>12.36</b>	<b>9.61</b>	<b>9.4</b>
	<b>CY 2000</b>	<b>8</b>	<b>6</b>	<b>19</b>	<b>12</b>	<b>11.25</b>	<b>10.73</b>
<b>Well Child Visits in the First 15 Months of Life Four Visits</b>	<b>CY 2001</b>	<b>13.33</b>	<b>11.44</b>	<b>22.36</b>	<b>16.64</b>	<b>14.6</b>	<b>13.57</b>
	<b>CY 2000</b>	<b>14</b>	<b>12</b>	<b>12</b>	<b>17</b>	<b>13.75</b>	<b>13.95</b>
<b>Well Child Visits in the First 15 Months of Life Five Visits</b>	<b>CY 2001</b>	<b>22.01</b>	<b>23.64</b>	<b>18.43</b>	<b>21.1</b>	<b>21.87</b>	<b>17.51</b>
	<b>CY 2000</b>	<b>23</b>	<b>25</b>	<b>8</b>	<b>20</b>	<b>19</b>	<b>16.29</b>

Indicator		CA I %	CA II/III %	Aggregate HMO %	FFS %	Total DMA %	HEDIS Mean %
Well Child Visits in the First 15 Months of Life Six + Visits	CY 2001	44.42	52.75	15.41	29.35	39.01	33.78
	CY 2000	41	49	4	27	30.25	30.2
Well Child Visits in the 3 <sup>rd</sup> - 6 <sup>th</sup> Years of Life	CY 2001	58.99	63.14	46.08	52.67	57.84	50.47
	CY 2000	58.2	62.1	46.4	53	57	49.04
Adolescent Well Care Visits Age 12-21 Years	CY 2001	27.44	31.63	22.8	27.09	28.12	30.17
	CY 2000	N/A*	N/A*	N/A*	N/A*	N/A*	27.93

### Utilization Indicators- Inpatient

Indicator Reported in Discharges/ 1000 Member Months		Age <1	Age 1-9 Years	Age 10-19 Years	Age 20-44 Years	Age 45-64 Years	Age 65-74 Years	Age 75-84 Years	Age 85+	Total	HEDIS Mean
Inpatient Utilization- General Hospital/Acute Care Total	CY 2001	12.8	2.8	7.8	28.3	26.5	12.6	14.7	17.9	13.8	9.37
	CY 2000	10.5	2.4	1.6	8.3	21.5	12.2	14.7	18.4	7.8	8.35
Inpatient Utilization- General Hospital/Acute Care Maternity	CY 2001	N/A	N/A	5.4	17.2	.01	N/A	N/A	N/A	9.1	3.48
	CY 2000	N/A	N/A	6.5	20	.01	N/A	N/A	N/A	10.3	3.55
Inpatient Utilization- General Hospital/Acute Care Surgery	CY 2001	1.3	.4	.7	3.4	6.2	2.2	2.1	2.3	2	1.06
	CY 2000	1.4	.4	.8	3.7	6.6	2.4	2.3	2.2	2.1	4.22
Inpatient Utilization- General Hospital/Acute Care Medicine	CY 2001	11.5	2.4	1.7	7.7	20.3	10.5	12.6	15.5	7.2	4.8
	CY 2000	10.5	2.4	1.6	8.3	21.5	12.2	14.7	18.4	7.8	4.21

**Utilization Indicators- Ambulatory Care**

<b><u>Indicator Reported as Visits/1000 Member Months</u></b>		<b><u>Age ≤1</u></b>	<b><u>Age 1-9 Years</u></b>	<b><u>Age 10-19 Years</u></b>	<b><u>Age 20-44 Years</u></b>	<b><u>Age 45-64 Years</u></b>	<b><u>Age 65-74 Years</u></b>	<b><u>Age 75-84 Years</u></b>	<b><u>Age 85+ Years</u></b>	<b><u>Total</u></b>	<b><u>HEDIS Mean</u></b>
<b>Outpatient Visits</b>	<b>CY 2001</b>	471.1	219.7	191.5	372.8	545.9	521	539.7	535.7	340.4	259.64
	<b>CY 2000</b>	446.2	205.7	170.9	339.5	513.7	483.4	503.4	497.2	317.9	244.69
<b>Emergency Department Visits</b>	<b>CY 2001</b>	88.5	43.6	41.3	87.9	60.4	28.8	27.6	28.3	54.4	43.59
	<b>CY 2000</b>	38.2	43.1	35.6	81.9	57.7	29.7	27.2	29.5	47.8	43.7
<b>Ambulatory Surgery Procedures/1000 Member Months</b>	<b>CY 2001</b>	4.7	3.3	2.3	10.2	22.4	19.1	16.2	9.9	8.5	4.5
	<b>CY 2000</b>	4.6	3.3	2.3	8.8	18.9	16.9	15.2	9.9	7.7	4.22
<b>Ambulatory Care Observation Room</b>	<b>CY 2001</b>	.6	.2	1.9	4.5	.3	.1	.1	.1	1.5	1.41
	<b>CY 2000</b>	.6	.2	2	4.7	.4	.2	.1	.1	1.4	1.28

**Table 2. HEDIS Measures for CSHCN by Systems of Care**

<b>Indicator</b>	<b>CAI</b>	<b>CA II/III</b>	<b><u>Aggregate HMO</u></b>	<b><u>Fee for Service</u></b>	<b><u>DMA Total</u></b>
<b>Childhood Immunization Rate #1</b>	<b>63.13%</b>	<b>61.72%</b>	<b>33.33%</b>	<b>56.78%</b>	<b>59.01%</b>
<b>Childhood Immunization Rate # 2</b>	<b>51.08%</b>	<b>56.61%</b>	<b>33.33%</b>	<b>47.51%</b>	<b>50.16%</b>
<b>Adolescent Immunization Rate #1</b>	<b>21.15%</b>	<b>20.99%</b>	<b>10.48%</b>	<b>15.22%</b>	<b>18.42%</b>
<b>Adolescent Immunization Rate #2</b>	<b>1.15%</b>	<b>.76%</b>	<b>0%</b>	<b>1.55%</b>	<b>1.19%</b>
<b>Well Child Visits in the First 15 Months of Life 0 Visits</b>	<b>7.19%</b>	<b>.34%</b>	<b>9.30%</b>	<b>10.8%</b>	<b>8.69%</b>
<b>Well Child Visits in the First 15 Months of Life 1 Visit</b>	<b>4.38%</b>	<b>.68%</b>	<b>25.58%</b>	<b>7.7%</b>	<b>6.54%</b>
<b>Well Child Visits in the First 15 Months of Life 2 Visits</b>	<b>6.56%</b>	<b>5.07%</b>	<b>20.93%</b>	<b>10.87%</b>	<b>9.57%</b>
<b>Well Child Visits in the First 15 Months of Life 3 Visits</b>	<b>7.81%</b>	<b>5.07%</b>	<b>9.3%</b>	<b>13.46%</b>	<b>11.28%</b>
<b>Well Child Visits in the First 15 Months of Life 4 Visits</b>	<b>14.06%</b>	<b>15.2%</b>	<b>18.6%</b>	<b>16.77%</b>	<b>16.16%</b>
<b>Well Child Visits in the First 15 Months of Life 5 Visits</b>	<b>23.13%</b>	<b>24.32%</b>	<b>13.95%</b>	<b>18.36%</b>	<b>19.87%</b>

Indicator	CAI	CA II/III	<u>Aggregate HMO</u>	<u>Fee for Service</u>	<u>DMA Total</u>
Well Child Visits in the First 15 Months of Life 6+ Visits	36.88%	49.32%	2.33%	22.03%	27.88%
Well Child Visits in the 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , and 6 <sup>th</sup> Years of Life	56.97%	64.02%	38.6%	55.79%	58.1%
Adolescent Well Care Visits	25.69%	29.1%	18.99%	36.55%	31.12%
Children's Access to Primary Care Practitioners 12-24 Months	97.67%	98.85%	95%	93.99%	95.73%
Children's Access to Primary Care Practitioners 25 months-6 years	88.78%	93.61%	77.46%	84.89%	88.21%
Children's Access to Primary Care Practitioners 7-11 years	81.21%	90.46%	67.42%	82.26%	83.51%
Utilization Indicators	<u>Age &lt;1</u>	Age 1-9 Years	Age 10-19 Years	Total	
Ambulatory Care-Outpatient Visits/1000 Member Months Age	782.9	340.9	226.8	290.2	
Ambulatory Care-Emergency Room Visits/1000 Member Months	80.2	44.6	38.7	42.3	
Ambulatory Care-Ambulatory Surgery Visits/1000 Member Months	13.8	7.3	3.3	5.3	

<b>Utilization Indicators</b>	<b><u>Age &lt;1</u></b>	<b>Age 1-9 Years</b>	<b>Age 10-19 Years</b>	<b>Total</b>	
<b>Ambulatory Care- Observation Room Visits/1000 Member Months</b>	<b>2</b>	<b>.6</b>	<b>.8</b>	<b>.7</b>	
<b>Inpatient Acute Care- Total Days/1000 Member Months</b>	<b>270.1</b>	<b>41.7</b>	<b>22.7</b>	<b>36.8</b>	
<b>Inpatient Acute Care- Medical Days/1000 Member Months</b>	<b>109</b>	<b>26.5</b>	<b>15.5</b>	<b>22.5</b>	
<b>Inpatient Acute Care- Surgery Days/1000 Member Months</b>	<b>161.1</b>	<b>15.2</b>	<b>7.2</b>	<b>14.2</b>	

## **Appendix I. Description of HEDIS Measures<sup>5</sup>**

1. **Childhood Immunization Rate 1-** The percentage of enrolled children who turned 2 years old during the measurement year, who were continuously enrolled immediately preceding their 2<sup>nd</sup> birthday, who were identified as having had 4 DtaP/DT, 3 IPV/OPV, 1 MMR, 3 H influenza type B, and 3 hepatitis B by the time period specified and by the member's 2<sup>nd</sup> birthday.
2. **Childhood Immunization Rate 2-** The percentage of children as described in Childhood Immunization Rate 1 who have received **all** of the vaccines listed in Rate 1 and at least one chicken pox vaccine.
3. **Adolescent Immunization Rate 1-** The percentage of enrolled adolescents who turned 13 years old during the measurement year, were continuously enrolled for 12 months immediately prior to their 13<sup>th</sup> birthday and who were identified as having had a 2<sup>nd</sup> dose of MMR, and 3 hepatitis B vaccines.
4. **Adolescent Immunization Rate 2-** The percentage of enrolled adolescents who received **all** of the vaccinations listed in Rate 1 and at least 1 chicken pox vaccine.
5. **Breast Cancer Screening-** The percentage of women age 50-69 years who were continuously enrolled<sup>2</sup> during the measurement year and the year prior to the measurement year who had a mammogram during the measurement year or year prior to the measurement year.
6. **Cervical Cancer Screening-** The percentage of women age 18-64 years who were continuously enrolled during the measurement year and the 2 years prior to the measurement year, and received 1 or more Pap tests during the measurement year or the 2 years prior to the measurement year.
7. **Diabetic HbA1c Testing-** The percentage of members with diabetes (Type I and Type 2) age 18-75 years, who were continuously enrolled during the measurement year and had 1 or more HbA1c tests during the measurement year.
8. **Diabetic Retinal Eye Exams-** The percentage of members with diabetes (Type I and Type 2) age 18-75 years, who were continuously enrolled<sup>2</sup> during the measurement year and had an eye screening for diabetic retinal disease during the measurement year.
9. **Diabetic LDL-C Screening-** The percentage of members with diabetes (Type I and Type 2) age 18-75 years, who were continuously enrolled during the measurement year and had an LCL-C test done during the measurement year or year prior to the measurement year.
10. **Use of Appropriate Medications for People with Asthma-** The percentage of members age 5-56 years with a diagnosis of persistent asthma that are being prescribed medications

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<sup>5</sup> Source-HEDIS 2002, Volume 2



acceptable as primary therapy for long-term control of asthma. This measure is reported for 3 age stratifications (based on age as of December 31 of the measurement year); 5-9 year-olds, 10-17 year-olds, and 18-56 year-olds.

11. **Adults' Access to Preventive/Ambulatory Health Services**- The percentage of enrollees age 20-44, 45-64, and 65 and older who had an ambulatory or preventive-care visit during the measurement year and who were continuously enrolled during the measurement year.
12. **Children's Access to Primary Care Practitioners**- The percentage of enrollees age 12-24 months, 25 months-6 years, and 7-11 years who had a visit with a primary care practitioner during the measurement year.
13. **Well-Child Visits in the First 15 Months of Life**- The percentage of enrolled members who turned 15 months old during the measurement year, who were continuously enrolled from 31 days of age, and who received either zero, one, two, three, four, five, or six or more well-child visits with a primary care practitioner during their first 15 months of life.
14. **Well Child Visits in the 3<sup>rd</sup>-6<sup>th</sup> Years of Life**- The percentage of continuously enrolled members who were three, four, five or six years old during the measurement year and received one or more well-child visits with a primary care practitioner during the measurement year.
15. **Adolescent Well-Care Visits**- The percentage of continuously enrolled members who were age 12-21 years during the measurement year who have had at least one comprehensive well-care visit with a primary care practitioner or an OB/GYN practitioner during the measurement year.
16. **Ambulatory Care**- The summary of utilization of ambulatory services in the following categories: Outpatient Visits, Emergency Department Visits, Ambulatory Surgery/Procedures performed in hospital outpatient facilities or freestanding surgical centers, and Observation Room Stays that result in discharge.
17. **Inpatient Utilization-General Hospital/Acute Care**- The summary of utilization of acute inpatient services in the following categories: total services, medicine, surgery, and maternity. Nonacute care, mental health and chemical dependency services, as well as newborn care, are excluded.

## **Appendix II. Numerators and Denominators for HEDIS Measures**

### **HEDIS (HEDIS2002 rules) MEDICAID - BY SYSTEM OF CARE - CHILDHOOD IMMUNIZATION RATE #1 - August 2002**

<b>SYSCARE</b>	<b>NUMERATOR</b>	<b>DENOMINATOR</b>	<b>PERCENTAGE</b>
Total	19013	32631	58.27
Access1	8009	12919	61.99
Access23	5619	8972	62.63
ffs	4844	9146	52.96
hmo	541	1594	33.94

### **HEDIS (HEDIS2002 rules) MEDICAID - BY SYSTEM OF CARE - CHILDHOOD IMMUNIZATION RATE #2 - August 2002**

<b>SYSCARE</b>	<b>NUMERATOR</b>	<b>DENOMINATOR</b>	<b>PERCENTAGE</b>
Total	15890	32631	48.70
Access1	6373	12919	49.33
Access23	5146	8972	57.36
ffs	3935	9146	43.02
hmo	436	1594	27.35

### **HEDIS (HEDIS2002 rules) MEDICAID - BY SYSTEM OF CARE - ADOLESCENT IMMUNIZATION RATE #1 - August 2002**

<b>SYSCARE</b>	<b>NUMERATOR</b>	<b>DENOMINATOR</b>	<b>PERCENTAGE</b>
Total	4708	17978	26.19
Access1	2281	7938	28.74
Access23	1301	4372	29.76
ffs	1017	4910	20.71
hmo	109	758	14.38

### **HEDIS (HEDIS2002 rules) MEDICAID - BY SYSTEM OF CARE - ADOLESCENT IMMUNIZATION RATE #2 - August 2002**

<b>SYSCARE</b>	<b>NUMERATOR</b>	<b>DENOMINATOR</b>	<b>PERCENTAGE</b>
Total	192	17978	1.07
Access1	89	7938	1.12
Access23	51	4372	1.17
ffs	50	4910	1.02
hmo	2	758	0.26

### **HEDIS (HEDIS2002 rules) MEDICAID - BY SYSTEM OF CARE - COMPREHENSIVE DIABETES CARE - September 2002**

#### **Hemoglobin HbA1c test**

<b>SYSCARE</b>	<b>NUMERATOR</b>	<b>DENOMINATOR</b>	<b>PERCENTAGE</b>
Total	14483	53456	27.09
Access1	8289	16531	50.14
Access23	1319	2702	48.82
ffs	4774	34056	14.02
hmo	101	167	60.48

## **Appendix II. Numerators and Denominators for HEDIS Measures**

### **HEDIS (HEDIS2002 rules) MEDICAID - BY SYSTEM OF CARE - COMPREHENSIVE DIABETES CARE - September 2002**

#### **LDL-C screens**

<b>SYSCARE</b>	<b>NUMERATOR</b>	<b>DENOMINATOR</b>	<b>PERCENTAGE</b>
Total	14317	53456	26.78
Access1	8222	16531	49.74
Access23	1308	2702	48.41
ffs	4695	34056	13.79
hmo	92	167	55.09

### **HEDIS (HEDIS2002 rules) MEDICAID - BY SYSTEM OF CARE - COMPREHENSIVE DIABETES CARE - September 2002**

#### **Retinal eye exams**

<b>SYSCARE</b>	<b>NUMERATOR</b>	<b>DENOMINATOR</b>	<b>PERCENTAGE</b>
Total	28741	53457	53.76
Access1	8993	16532	54.40
Access23	1383	2702	51.18
ffs	18308	34056	53.76
hmo	57	167	34.13

### **HEDIS (HEDIS2002 rules) MEDICAID - BY SYSTEM OF CARE - CERVICAL CANCER SCREENING - November 5, 2002**

<b>SYSCARE</b>	<b>NUMERATOR</b>	<b>DENOMINATOR</b>	<b>PERCENTAGE</b>
Total	68580.00	149556.00	45.86
Access1	36245.00	65471.00	55.36
Access23	5725.00	11027.00	51.92
ffs	25657.00	71107.00	36.08
hmo	953.00	1951.00	48.85

### **HEDIS (HEDIS2002 rules) MEDICAID - BY SYSTEM OF CARE - BREAST CANCER SCREENING - November 5, 2002**

<b>SYSCARE</b>	<b>NUMERATOR</b>	<b>DENOMINATOR</b>	<b>PERCENTAGE</b>
Total	22555.00	48694.00	46.32
Access1	7621.00	14756.00	51.65
Access23	1127.00	2161.00	52.15
ffs	13768.00	31649.00	43.50
hmo	39.00	128.00	30.47

### **HEDIS 2002 rules - MEDICAID - BY SYSTEM OF CARE - ASTHMA APPROPRIATE MEDICATION USAGE - September 2002**

#### **5-9 YEAR OLDS IN CALENDAR YEAR 2001**

<b>SYSCARE</b>	<b>NUMERATOR</b>	<b>DENOMINATOR</b>	<b>PERCENTAGE</b>
Total	3591	4928	72.87
Access1	1288	1891	68.11
Access23	1112	1355	82.07
ffs	1160	1632	71.08
hmo	31	50	62.00

## **Appendix II. Numerators and Denominators for HEDIS Measures**

HEDIS 2002 rules - MEDICAID - BY SYSTEM OF CARE - ASTHMA  
APPROPRIATE MEDICATION USAGE - September 2002

10-17 YEAR OLDS IN CALENDAR YEAR 2001

SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	4317	5714	75.55
Access1	1772	2413	73.44
Access23	1205	1461	82.48
ffs	1303	1780	73.20
hmo	37	60	61.67

HEDIS 2002 rules - MEDICAID - BY SYSTEM OF CARE - ASTHMA  
APPROPRIATE MEDICATION USAGE - September 2002

18-56 YEAR OLDS IN CALENDAR YEAR 2001

SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	8435	11401	73.98
Access1	3438	4670	73.62
Access23	560	716	78.21
ffs	4403	5964	73.83
hmo	34	51	66.67

HEDIS 2002 rules - MEDICAID - BY SYSTEM OF CARE - ASTHMA APPROPRIATE  
MEDICATION USAGE - September 2002

Combined rate (sum of the three numerators divided by the sum of the three denominators)

SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	16343	22043	74.14
Access1	6498	8974	72.41
Access23	2877	3532	81.46
ffs	6866	9376	73.23
hmo	102	161	63.35

HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - ADULT ACCESS TO  
PREVENTIVE/AMBULATORY HEALTH SERVICES

20-44 years old November 2002 run

SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	25865	28692	90.15
Access1	22245	24545	90.63
Access23	3579	4103	87.23
hmo	41	44	93.18

HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - ADULT ACCESS TO  
PREVENTIVE/AMBULATORY HEALTH SERVICES

45-64 years old November 2002 run

SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	21846	23075	94.67
Access1	19095	20073	95.13
Access23	2736	2987	91.30
hmo	15	15	100.00

## **Appendix II. Numerators and Denominators for HEDIS Measures**

### **HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - ADULT ACCESS TO PREVENTIVE/AMBULATORY HEALTH SERVICES**

65-older years old November 2002 run

SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	8143	8437	96.52
Access1	7087	7321	96.80
Access23	1056	1116	94.62
hmo	0	0	0.00

### **HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - CHILDREN'S ACCESS TO PRIMARY CARE PRACTITIONERS**

12-24 mths November 2002 run 2001 data

SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	40941	42941	95.34
Access1	15441	16079	96.03
Access23	11440	11704	97.74
ffs	13356	14382	92.87
hmo	704	776	90.72

### **HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - CHILDREN'S ACCESS TO PRIMARY CARE PRACTITIONERS**

25 mths - 6 yrs November 2002 run 2001 data

SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	110746	131057	84.50
Access1	44092	51596	85.46
Access23	31547	35058	89.99
ffs	33181	41943	79.11
hmo	1926	2460	78.29

### **HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - CHILDREN'S ACCESS TO PRIMARY CARE PRACTITIONERS**

7 yrs - 11 yrs November 2002 run 2001 data

SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	65509	82017	79.87
Access1	25898	32974	78.54
Access23	16340	18817	86.84
ffs	22542	29195	77.21
hmo	729	1031	70.71

### **HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - ADULT ACCESS TO PREVENTIVE/AMBULATORY HEALTH SERVICES**

20-44 years old November 2002 run 2001 data

SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	108830	138748	78.44
Access1	48867	61084	80.00
Access23	8082	10576	76.42
ffs	50429	65049	77.52
hmo	1452	2039	71.21

## **Appendix II. Numerators and Denominators for HEDIS Measures**

### **HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - ADULT ACCESS TO PREVENTIVE/AMBULATORY HEALTH SERVICES**

45-64 years old	November 2002 run	2001 data	
SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	77933	94483	82.48
Access1	29635	33562	88.30
Access23	4563	5479	83.28
ffs	43379	54988	78.89
hmo	356	454	78.41

### **HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - ADULT ACCESS TO PREVENTIVE/AMBULATORY HEALTH SERVICES**

65-older years old	November 2002 run	2001 data	
SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	112132	139741	80.24
Access1	9716	10497	92.56
Access23	1480	1671	88.57
ffs	100934	127571	79.12
hmo	2	2	100.00

### **HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - Well-child visits in the first 15 months of life**

	January 2003 run	2001 data	(all eligible children)					
PERCENTAGES								
Syscare	Zero visits	One visit	Two visits	Three visits	Four visits	Five visits	Six+ visits	
Access1	4.13%	3.74%	4.60%	7.77%	13.33%	22.01%	44.42%	100.00%
Access23	1.17%	1.84%	3.05%	6.12%	11.44%	23.64%	52.75%	100.00%
ffs	5.95%	6.00%	8.60%	12.36%	16.64%	21.10%	29.35%	100.00%
hmo	7.33%	8.38%	11.86%	16.24%	22.36%	18.43%	15.41%	100.00%

Zero visits	One visit	Two visits	Three visits	Four visits	Five visits	Six+ visits	Total
509	460	566	957	1,642	2,711	5,470	12,315
101	159	263	528	987	2,040	4,552	8,630
949	956	1,372	1,971	2,653	3,364	4,680	15,945
97	111	157	215	296	244	204	1,324
1,656	1,686	2,358	3,671	5,578	8,359	14,906	38,214
4.33%	4.41%	6.17%	9.61%	14.60%	21.87%	39.01%	100.00%

## **Appendix II. Numerators and Denominators for HEDIS Measures**

HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - Well-child visits in the third, fourth, fifth, and sixth years of life

	January 2003 run	2001 data	(all eligible children)
SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	59,992	103,728	57.84%
Access1	24,287	41,173	58.99%
Access23	17,413	27,580	63.14%
ffs	17,398	33,035	52.67%
hmo	894	1,940	46.08%

HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - Adolescent Well-care Visits

	January 2003 run	2001 data	(all eligible children)
SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	36,450	129,619	28.12%
Access1	15,673	57,126	27.44%
Access23	8,581	27,128	31.63%
ffs	11,710	43,233	27.09%
hmo	486	2,132	22.80%

HEDIS (HEDIS2002 rules) - Inpatient Utilization - General Hospital Acute Care

January 2003 run			2001 data		(all eligible)			
Total Inpatient Acute Care								
		Discharge/1,000		Days/1,000	Avg Length	Discharge/1	Days/1000	
Age	Discharges	member months	Days	member months	of Stay	000 members	members	Total Months
<1	9,514	12.8	40,516	54.4	4.3	153.3	652.8	744,816
1 to 9	10,168	2.8	35,032	9.6	3.4	33.6	115.8	3,631,149
10 to 19	19,746	7.8	60,619	24.0	3.1	93.9	288.2	2,524,417
20 to 44	74,070	28.3	262,306	100.3	3.5	339.7	1203.1	2,616,374
45 to 64	35,525	26.5	205,860	153.5	5.8	317.9	1842.1	1,341,060
65 to 74	9,669	12.6	50,143	65.5	5.2	151.6	786.2	765,363
75 to 84	10,438	14.7	53,801	75.7	5.2	176.2	908.2	710,882
85+	7,051	17.9	37,511	95.0	5.3	214.2	1139.6	394,994
Total	176,181	13.8	745,788	58.6	4.2	166.1	703.1	12,729,055

## **Appendix II. Numerators and Denominators for HEDIS Measures**

HEDIS (HEDIS2002 rules) - Inpatient Utilization - General Hospital Acute Care								
January 2003 run			2001 data		(all eligible)			
Medical								
Age	Discharges	Discharge/1,000 member months	Days	Days/1,000 member months	Avg Length of Stay	Discharge/1000 members	Days/1000 members	Total Months
<1	8,548	11.5	27,496	36.9	3.2	137.7	443.0	744,816
1 to 9	8,774	2.4	25,232	6.9	2.9	29.0	83.4	3,631,149
10 to 19	4,184	1.7	15,821	6.3	3.8	19.9	75.2	2,524,417
20 to 44	20,089	7.7	91,899	35.1	4.6	92.1	421.5	2,616,374
45 to 64	27,212	20.3	134,402	100.2	4.9	243.5	1202.6	1,341,060
65 to 74	8,021	10.5	39,668	51.8	4.9	125.8	621.9	765,363
75 to 84	8,931	12.6	44,118	62.1	4.9	150.8	744.7	710,882
85+	6,141	15.5	31,692	80.2	5.2	186.6	962.8	394,994
Total	91,900	7.2	410,328	32.2	4.5	86.6	386.8	12,729,055

HEDIS (HEDIS2002 rules) - Inpatient Utilization - General Hospital Acute Care								
January 2003 run			2001 data	(all eligible)				
Surgery								
Age	Discharges	Discharge/1,000 member months	Days	Days/1,000 member months	Avg Length of Stay	Discharge /1000 members	Days/1000 members	Total Months
<1	966	1.3	13,020	17.5	13.5	15.6	209.8	744,816
1 to 9	1,394	0.4	9,800	2.7	7.0	4.6	32.4	3,631,149
10 to 19	1,816	0.7	10,293	4.1	5.7	8.6	48.9	2,524,417
20 to 44	8,859	3.4	58,419	22.3	6.6	40.6	267.9	2,616,374
45 to 64	8,294	6.2	71,404	53.2	8.6	74.2	638.9	1,341,060
65 to 74	1,648	2.2	10,475	13.7	6.4	25.8	164.2	765,363
75 to 84	1,507	2.1	9,683	13.6	6.4	25.4	163.5	710,882
85+	910	2.3	5,819	14.7	6.4	27.6	176.8	394,994
Total	25,394	2.0	188,913	14.8	7.4	23.9	178.1	12,729,055



## Appendix II. Numerators and Denominators for HEDIS Measures

### HEDIS (HEDIS2002 rules) - Inpatient Utilization - General Hospital Acute Care

January 2003 run      2001 data      (all eligible)

#### Maternity

Age	Discharges	Discharge/1,000 member months	Days	Days/1,000 member months	Avg Length of Stay	Discharge/1000 members	Days/1000 members	Total Months
<1								
1 to 9								
10 to 19	13,746	5.4	34,505	13.7	2.5	65.3	164.0	2,524,417
20 to 44	45,122	17.2	111,988	42.8	2.5	207.0	513.6	2,616,374
45 to 64	19	0.01	54	0.04	2.8	0.2	0.5	1,341,060

#### Outpatient Visits

Age	Member Months	Visits	Visits/1000 Members	Visits/1000 Member Months
<1	744,816	350,878	5653.1	471.1
1 to 9	3,631,149	797,652	2636.0	219.7
10 to 19	2,524,417	483,489	2298.3	191.5
20 to 44	2,616,374	975,449	4473.9	372.8
45 to 64	1,341,060	732,120	6551.1	545.9
65 to 74	765,363	398,748	6251.9	521.0
75 to 84	710,882	383,657	6476.3	539.7
85+	394,994	211,606	6428.6	535.7
Total	12,729,055	4,333,599	4085.4	340.4

#### Emergency Room Visits

Age	Member Months	Visits	Visits/1000 Members	Visits/1000 Member Months
<1	744,816	65,939	1062.4	88.5
1 to 9	3,631,149	158,471	523.7	43.6
10 to 19	2,524,417	104,288	495.7	41.3
20 to 44	2,616,374	229,992	1054.9	87.9
45 to 64	1,341,060	80,933	724.2	60.4
65 to 74	765,363	22,071	346.0	28.8
75 to 84	710,882	19,640	331.5	27.6
85+	394,994	11,190	340.0	28.3
Total	12729055	692524	652.9	54.4

## **Appendix II. Numerators and Denominators for HEDIS Measures**

### Ambulatory Surgery

Age	Member Months	Visits	Visits/1000 Members	Visits/1000 Member Months	
<1	744,816	3,496	56.3	4.7	
1 to 9	3,631,149	11,935	39.4	3.3	
10 to 19	2,524,417	5,793	27.5	2.3	
20 to 44	2,616,374	26,696	122.4	10.2	
45 to 64	1,341,060	30,012	268.6	22.4	
65 to 74	765,363	14,645	229.6	19.1	
75 to 84	710,882	11,535	194.7	16.2	
85+	394,994	3,927	119.3	9.9	
Total	12729055	108039	101.9	8.5	

### Observation Room Visits

Age	Member Months	Visits	Visits/1000 Members	Visits/1000 Member Months	
<1	744,816	478	7.7	0.6	
1 to 9	3,631,149	764	2.5	0.2	
10 to 19	2,524,417	4782	22.7	1.9	
20 to 44	2,616,374	11872	54.5	4.5	
45 to 64	1,341,060	420	3.8	0.3	
65 to 74	765,363	70	1.1	0.1	
75 to 84	710,882	82	1.4	0.1	
85+	394,994	30	0.9	0.1	
Total	12729055	18498	17.4	1.5	

### **Appendix III. Numerators and Denominators for HEDIS Measures for CSHCN**

#### **HEDIS (HEDIS2002 rules) MEDICAID - BY SYSTEM OF CARE - CHILDHOOD IMMUNIZATION RATE #1 - August 2002**

Special Needs children

<b>SYSCARE</b>	<b>NUMERATOR</b>	<b>DENOMINATOR</b>	<b>PERCENTAGE</b>
Total	1127	1910	59.01
Access1	351	556	63.13
Access23	266	431	61.72
ffs	490	863	56.78
hmo	20	60	33.33

#### **HEDIS (HEDIS2002 rules) MEDICAID - BY SYSTEM OF CARE - CHILDHOOD IMMUNIZATION RATE #2 - August 2002**

<b>SYSCARE</b>	<b>NUMERATOR</b>	<b>DENOMINATOR</b>	<b>PERCENTAGE</b>
Total	958	1910	50.16
Access1	284	556	51.08
Access23	244	431	56.61
ffs	410	863	47.51
hmo	20	60	33.33

#### **HEDIS (HEDIS2002 rules) MEDICAID - BY SYSTEM OF CARE - ADOLESCENT IMMUNIZATION RATE #1 - August 2002**

Special Needs children

<b>SYSCARE</b>	<b>NUMERATOR</b>	<b>DENOMINATOR</b>	<b>PERCENTAGE</b>
Total	680	3691	18.42
Access1	277	1310	21.15
Access23	166	791	20.99
ffs	226	1485	15.22
hmo	11	105	10.48

#### **HEDIS (HEDIS2002 rules) MEDICAID - BY SYSTEM OF CARE - ADOLESCENT IMMUNIZATION RATE #2 - August 2002**

<b>SYSCARE</b>	<b>NUMERATOR</b>	<b>DENOMINATOR</b>	<b>PERCENTAGE</b>
Total	44	3691	1.19
Access1	15	1310	1.15
Access23	6	791	0.76
ffs	23	1485	1.55
hmo	0	105	0.00

### Appendix 3. Numerators and Denominators for HEDIS Measures for CSHCN

Well Child Visits in the 1 <sup>st</sup> 15 months of life					PERCENTAGES		
Syscare	0 visits	1 visit	2 visits	3 visits	4 visits	5 visits	6+ visits
Access1	7.19%	4.38%	6.56%	7.81%	14.06%	23.13%	36.88%
Access23	0.34%	0.68%	5.07%	5.07%	15.20%	24.32%	49.32%
ffs	10.80%	7.70%	10.87%	13.46%	16.77%	18.36%	22.03%
hmo	9.30%	25.58%	20.93%	9.30%	18.60%	13.95%	2.33%

Well Child	Counts							
Syscare	0 visits	1 visit	2 visits	3 visits	4 visits	5 visits	6+ visits	Total
Access1	23	14	21	25	45	74	118	320
Access23	1	2	15	15	45	72	146	296
ffs	150	107	151	187	233	255	306	1,389
hmo	4	11	9	4	8	6	1	43
	178	134	196	231	331	407	571	2,048
								100.00
	8.69%	6.54%	9.57%	11.28%	16.16%	19.87%	27.88%	%

HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - Well-child visits in the third, fourth, fifth, and sixth years of life

	January 2003 run	2001 data	(special needs children only)
SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total		5,940	10,224 58.10%
Access1		1,897	3,330 56.97%
Access23		1,607	2,510 64.02%
ffs		2,414	4,327 55.79%
hmo		22	57 38.60%

HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - Adolescent Well-care Visits

	January 2003 run	2001 data	(special needs children only)
SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total		7,196	23,121 31.12%
Access1		2,102	8,182 25.69%
Access23		1,322	4,543 29.10%
ffs		3,742	10,238 36.55%
hmo		30	158 18.99%

### Appendix 3. Numerators and Denominators for HEDIS Measures for CSHCN

#### HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - CHILDREN'S ACCESS TO PRIMARY CARE PRACTITIONERS

12 - 24 mths	January 2003 run	2001 data (Special needs children)	
SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	2129	2224	95.73
Access1	461	472	97.67
Access23	430	435	98.85
ffs	1219	1297	93.99
hmo	19	20	95.00

#### HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - CHILDREN'S ACCESS TO PRIMARY CARE PRACTITIONERS

25 mths - 6 yrs	January 2003 run	2001 data (Special needs children)	
SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	10653	12077	88.21
Access1	3425	3858	88.78
Access23	2753	2941	93.61
ffs	4420	5207	84.89
hmo	55	71	77.46

#### HEDIS (HEDIS2002 rules) - BY SYSTEM OF CARE - CHILDREN'S ACCESS TO PRIMARY CARE PRACTITIONERS

7 yrs - 11 yrs	January 2003 run	2001 data (Special needs children)	
SYSCARE	NUMERATOR	DENOMINATOR	PERCENTAGE
Total	13125	15717	83.51
Access1	4146	5105	81.21
Access23	2901	3207	90.46
ffs	6018	7316	82.26
hmo	60	89	67.42

#### Outpatient Visits

Age	Member Months	Visits	Visits/1000 Members	Visits/1000 Member Months
<1	744,816	350,878	5653.1	471.1
1 to 9	3,631,149	797,652	2636.0	219.7
10 to 19	2,524,417	483,489	2298.3	191.5
20 to 44	2,616,374	975,449	4473.9	372.8
45 to 64	1,341,060	732,120	6551.1	545.9
65 to 74	765,363	398,748	6251.9	521.0
75 to 84	710,882	383,657	6476.3	539.7
85+	394,994	211,606	6428.6	535.7
Total	12,729,055	4,333,599	4085.4	340.4

### Appendix 3. Numerators and Denominators for HEDIS Measures for CSHCN

#### Emergency Room Visits

Age	Member Months	Visits	Visits/1000 Members	Visits/1000 Member Months	
<1		744,816	65,939	1062.4	88.5
1 to 9		3,631,149	158,471	523.7	43.6
10 to 19		2,524,417	104,288	495.7	41.3
20 to 44		2,616,374	229,992	1054.9	87.9
45 to 64		1,341,060	80,933	724.2	60.4
65 to 74		765,363	22,071	346.0	28.8
75 to 84		710,882	19,640	331.5	27.6
85+		394,994	11,190	340.0	28.3
Total		12729055	692524	652.9	54.4

#### Ambulatory Surgery

Age	Member Months	Visits	Visits/1000	Visits/1000	
			Members	Member Months	
<1		744,816	3,496	56.3	4.7
1 to 9		3,631,149	11,935	39.4	3.3
10 to 19		2,524,417	5,793	27.5	2.3
20 to 44		2,616,374	26,696	122.4	10.2
45 to 64		1,341,060	30,012	268.6	22.4
65 to 74		765,363	14,645	229.6	19.1
75 to 84		710,882	11,535	194.7	16.2
85+		394,994	3,927	119.3	9.9
Total		12729055	108039	101.9	8.5

#### Observation Room Visits

Age	Member Months	Visits	Visits/1000 Members	Visits/1000 Member Months	
<1		744,816	478	7.7	0.6
1 to 9		3,631,149	764	2.5	0.2
10 to 19		2,524,417	4782	22.7	1.9
20 to 44		2,616,374	11872	54.5	4.5
45 to 64		1,341,060	420	3.8	0.3
65 to 74		765,363	70	1.1	0.1
75 to 84		710,882	82	1.4	0.1
85+		394,994	30	0.9	0.1

Total 12729055 18498 17.4 1.5

### Appendix 3. Numerators and Denominators for HEDIS Measures for CSHCN

Medical								
Age	Discharges	Discharge/ 1,000 member months	Days	Days/1,000 member months	Avg Length of Stay	Discharge/1000 members	Days/1000 members	Total Months
<1	352		1,552	109.0	4.4	296.7	1308.2	14,236
1 to 9	1,999	7.1	7,491	26.5	3.7	84.8	317.8	282,813
10 to 19	1,216	3.6	5,225	15.5	4.3	43.4	186.5	336,238
Total	3,567	5.6	14,268	22.5	4.0	67.6	270.4	633,287

Surgery								
		Discharge/1,000		Days/1,000	Avg Length	Discharge/1000	Days/1000	
Age	Discharges	member	Days	member	of Stay	members	members	Total Mos.
<1	107	7.5	2,293	161.1	21.4	90.2	1932.8	14,236
1 to 9	498	1.8	4,304	15.2	8.6	21.1	182.6	282,813
10 to 19	413	1.2	2,420	7.2	5.9	14.7	86.4	336,238
Total	1,018	1.6	9,017	14.2	8.9	19.3	170.9	633,287

